

## Public Notice – Environmental Permit

**PURPOSE OF NOTICE:** To seek public comment on a draft permit from the Department of Environmental Quality for the withdrawal of ground water in York County, Virginia.

**PUBLIC COMMENT PERIOD:** March 3, 2013 – April 2, 2013

**PERMIT NAME:** Ground Water Withdrawal Permit issued by DEQ, under the authority of the State Water Control Board

**APPLICANT NAME, ADDRESS AND PERMIT NUMBER:** City of Newport News; 700 Town Center Dr. Newport News, Virginia 23501; GW0052200

**NAME AND LOCATION OF WATER WITHDRAWAL:** Combined Skimino, Banbury, and Lightfoot Systems; 1301 Lightfoot Road, Williamsburg, VA 23188

**PROJECT DESCRIPTION:** The City of Newport News has applied for reissuance of a permit combining the previously permitted Skimino/Banbury and Lightfoot water supply systems in York County, Virginia. The permit would allow the applicant to withdraw an average of 698,696 gallons per day. The ground water withdrawal will support proposed residential and commercial development and similar existing uses supported by the previous permits. The proposed withdrawal will utilize the Piney Point aquifer at a depth between 250 feet to 300 feet below the land surface at the withdrawal site. An aquifer is a body of rock or layer of sediment in the ground in which ground water is stored and transported. DEQ has made a tentative decision to issue the permit.

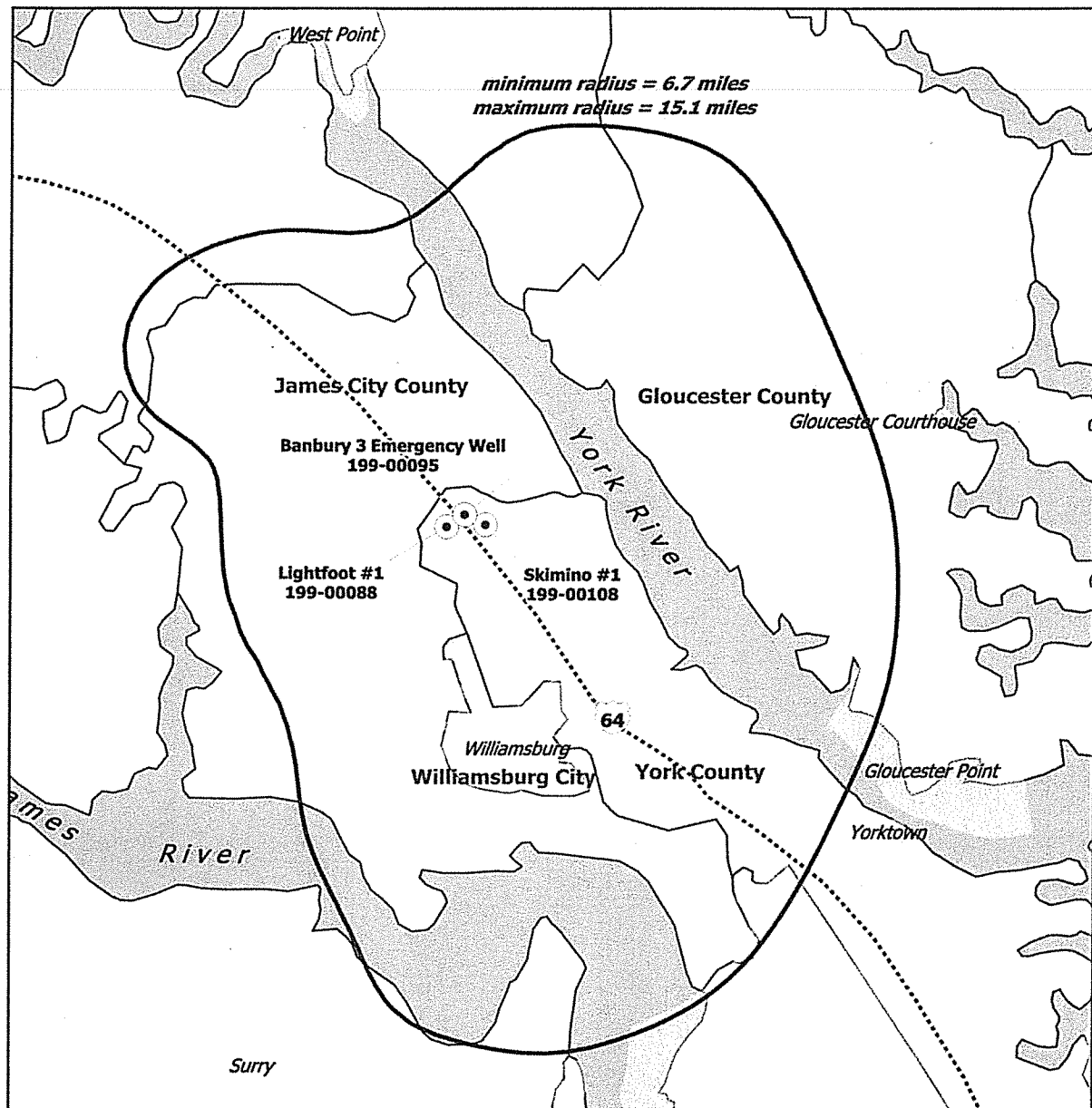
**AFFECTED AREA:** The radial distance from the wells to where computer modeling predicts the affected aquifers may experience one foot of drawdown due to the withdrawal is illustrated on maps that can be viewed at:

<http://www.deq.virginia.gov/Programs/Water/WaterSupplyWaterQuantity/GroundwaterPermitting/PublicNotices.aspx>

**HOW TO COMMENT AND OR REQUEST A PUBLIC HEARING:** DEQ accepts comments and requests for public hearing by e-mail, fax or postal mail. All comments and requests must be in writing and be received by DEQ during the comment period. Submittals must include the names, mailing addresses and telephone numbers of the commenter/requester and of all persons represented by the commenter/requester. A request for public hearing must also include: 1) The reason why a public hearing is requested. 2) A brief, informal statement regarding the nature and extent of the interest of the requester or of those represented by the requestor, including how and to what extent such interest would be directly and adversely affected by the permit. 3) Specific references, where possible, to terms and conditions of the permit with suggested revisions. DEQ may hold a public hearing, including another comment period, if public response is significant and there are substantial, disputed issues relevant to the proposed permit. **CONTACT FOR PUBLIC COMMENTS, DOCUMENT REQUESTS AND ADDITIONAL INFORMATION:** Hank Ghittino; Tidewater Regional Office, 5636 Southern Blvd. Virginia Beach, VA, 23451; Phone: 757-518-2197; E-mail: [hank.ghittino@deq.virginia.gov](mailto:hank.ghittino@deq.virginia.gov); FAX: 757-518-2009. The public may review the draft permit and application at the DEQ office named above by appointment.

# **York County - Lightfoot System**

## **Area of Impact - Piney Point Aquifer**



0 10 mi

USGS Topo 1:24,000  
UTM Zone 18, NAD 83

**Lightfoot System Area of Impact**

- Lightfoot Wells
- Area of Impact (AOI)

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Technical evaluation performed by Layne Hydro,  
a division of Layne Christensen Company  
for the Virginia DEQ, Office of Surface and  
Ground Water Supply Planning  
March 16, 2012

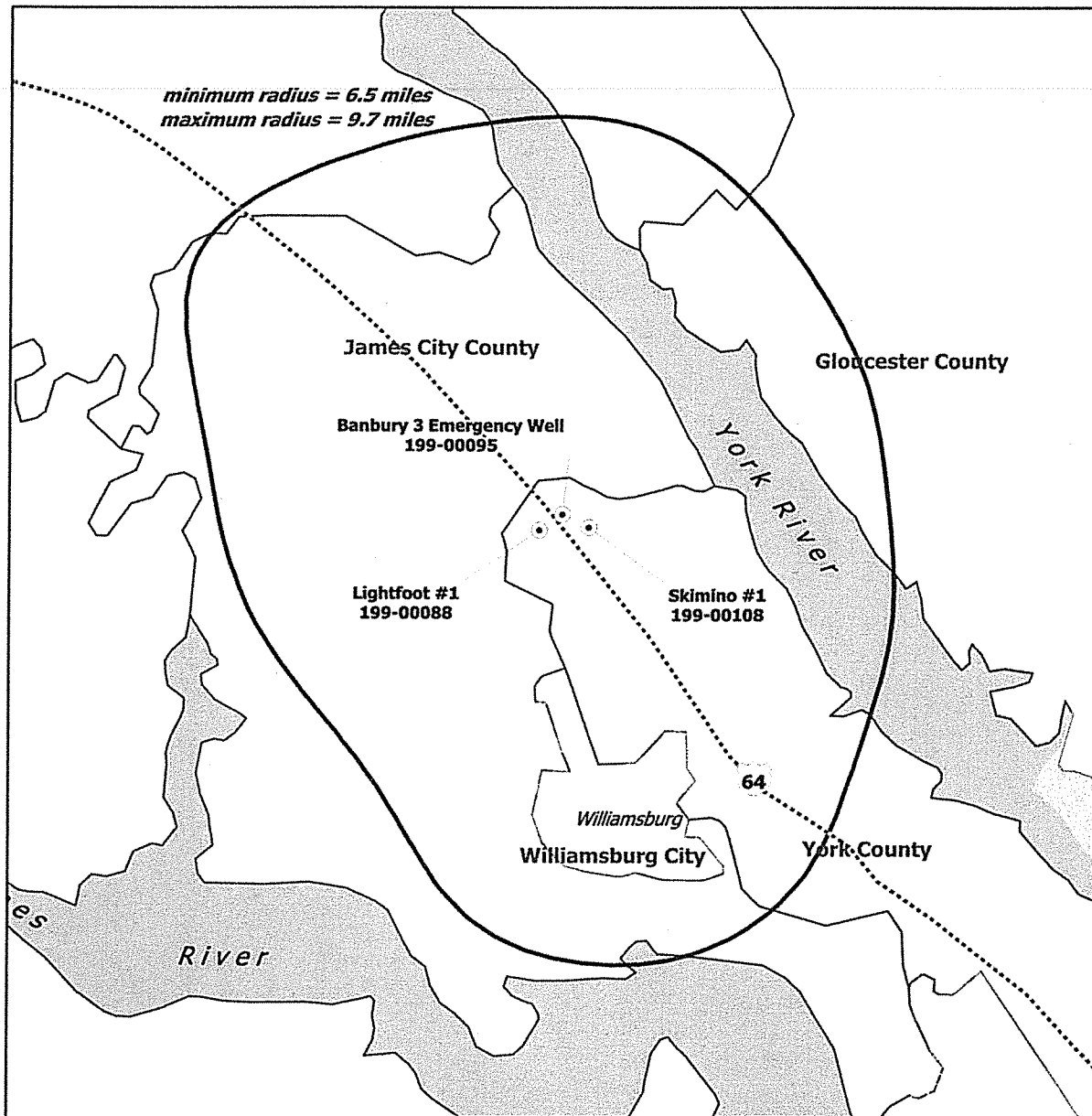
The Area of Impact (AOI) in the Piney Point Aquifer is based on the VCPM MODFLOW model simulation of a withdrawal of 255,024,000 gallons per year or 485.2 gallons per minute. The radius of one-foot of drawdown (AOI) for the Lightfoot System has a maximum radius of 15.1 mi and a minimum radius of 6.7 mi from the center of production.



Figure 6. Area of Impact in the Piney Point Aquifer for the requested withdrawal by the Lightfoot System.

# **York County - Lightfoot System**

Area of Impact - Aquia Aquifer



0 10 mi

USGS Topo 1:24,000  
UTM Zone 18, NAD 83

## **Lightfoot System Areas of Impact**

- Lightfoot Wells
- Aquia Aquifer AOI



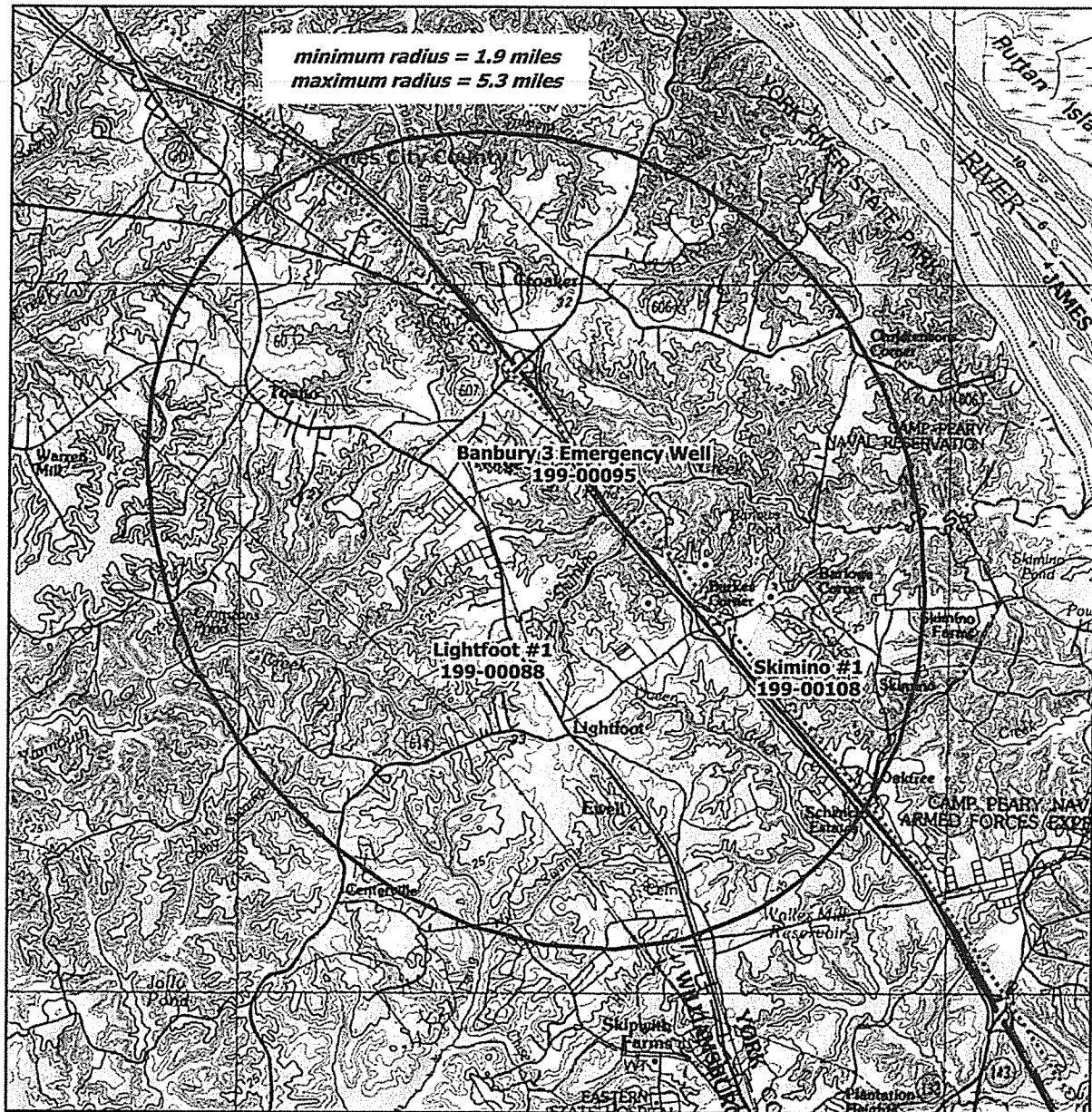
Technical evaluation performed by Layne Hydro,  
a division of Layne Christensen Company  
for the Virginia DEQ, Office of Surface and  
Ground Water Supply Planning  
March 21, 2012

The Area of Impact (AOI) in the Aquia Aquifer is based on the VCPM MODFLOW model simulation of a withdrawal of 255,024,000 gallons per year or 485.2 gallons per minute from the Piney Point Aquifer. The requested Lightfoot System withdrawal creates an one-foot of drawdown area (AOI) in the Aquia Aquifer which has a minimum radius of 6.5 miles and a maximum radius of 9.7 miles from the center of production.



Figure 7. Area of Impact in the Aquia Aquifer for the requested withdrawal by the Lightfoot System.

# **York County - Lightfoot System** **Area of Impact - Upper Potomac Aquifer**



0 2 mi

USGS Topo 1:24,000  
 UTM Zone 18, NAD 83

## **Lightfoot System Area of Impact**

- Lightfoot Wells
- Upper Potomac Aquifer AOI



Technical evaluation performed by Layne Hydro,  
 a division of Layne Christensen Company  
 for the Virginia DEQ, Office of Surface and  
 Ground Water Supply Planning  
 March 21, 2012

The Area of Impact (AOI) in the Upper Potomac Aquifer is based on the VCPM MODFLOW model simulation of a withdrawal of 255,024,000 gallons per year or 485.2 gallons per minute from the Piney Point Aquifer. The requested Lightfoot System withdrawal creates an one-foot of drawdown area (AOI) in the Upper Potomac Aquifer which has a minimum radius of 1.9 miles and a maximum radius of 5.3 miles from the center of production.



Figure 8. Area of Impact in the Upper Potomac Aquifer for the requested withdrawal by the Lightfoot System